



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Complete if Known	
				Application Number	10/676,726-Conf. #2945
				Filing Date	October 1, 2003
				First Named Inventor	Richard D. Thornton
				Art Unit	2834
				Examiner Name	B. S. Mullins
Sheet	1	of	1	Attorney Docket Number	102320-0037

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BM	BA	EP 1283586 A1	02-12-2003	Ohto, Motomichi		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
BM	CA	Hor, P. J., et al. "Minimization of Cogging Force in a Linear Permanent Magnet Motor", IEEE Transactions on Magnetics, Vol. 34., No. 5, September 1998, pp.3544-3547.	
BM	CB	Koh, Chang Seop, "New Cogging-Torque Reduction Method for Brushless Permanent-Magnet Motors", IEEE Transactions on Magnetics, Vol. 39, No. 6, November 2003, pp.3503-3506.	
BM	CC	Zyl, AW van and CF Landy, "Reduction of Cogging Forces in a Tubular Linear Synchronous Motor by Optimising the Secondary Design", IEEE Africon, pp.689-692 (2002).	
BM	CD	Zhu, Z.Q., et al., "Reduction of cogging force in slotless linear permanent magnet motors", IEE Proc.-Electr. Power Appl., Vol. 144, No. 4, July 1997, pp.277-282.	
BM	CE	Zhu, Z.Q., et al., "Novel Linear Tubular Brushless Permanent Magnet Motor", EMD97, 1-3, September 1997, Conference Publication No. 444, IEE 1997, pp.91-95.	
BM	CF	Breton, C., et al., "Influence of Machine Symmetry on Reduction of Cogging Torque in Permanent-Magnet Brushless Motors", IEEE Transactions on Magnetics, Vol. 36, No. 5, September 2000, pp.3819-3823.	
BM	CG	Li, Touzhu and Gordon Slemon, "Reduction of Cogging Torque in Permanent Magnet Motors", IEEE Transactions on Magnetics, Vol. 24, No. 6, November 1988, pp.2901-2903.	

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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		Number-Kind Code ² (if known)			
<input checked="" type="checkbox"/>	AA	US-3,912,992	10-14-1975	LAMB	
	AB	US-6,418,857	07-16-2002	OKANO et al.	
	AC	US-4,972,779	11-27-1990	MORISHITA et al.	
	AD	US-5,467,718	11-21-1995	SHIBATA et al.	
	AE	US-6,684,794	02-03-2004	FISKE et al.	
<input checked="" type="checkbox"/>	AF	US-6,286,434	09-11-2001	FISCHPERER	

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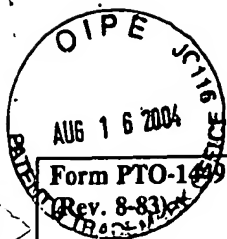
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Form PTO-1495

(Rev. 8-83)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE *
BM	3 0 2 9 8 9 3	4/17/62	Mountjoy			
	3 4 4 0 6 0 0	4/22/69	Frech et al.			
	3 5 3 2 9 3 4	10/6/70	Ballman			
	3 6 0 9 6 7 6	9/28/71	Jauquet et al.	340	23	
	3 6 1 7 8 9 0	11/2/71	Kurauchi et al.	325	51	
	3 6 2 8 4 6 2	12/21/71	Holt	104	105	
	3 6 3 6 5 0 8	1/18/72	Ogilvy et al.	340	47	
	3 6 7 9 8 7 4	7/25/72	Fickenscher	235	61.7	
	3 7 6 8 4 1 7	10/30/73	Thornton et al.			
↓	3 7 7 2 6 4 0	11/13/73	Auer, Jr. et al.	340	23	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO
BM WO 95/21405	8/10/95	PCT			
BM 0 229 669	7/22/87	EP			
BM 0 482 424 B1	1/10/96	EP			
BM 235 786 A3	5/21/86	DE			x

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

BM	Eghtesadi, M. "Inductive Power Transfer to an Electric Vehicle-Analytical Model," 40 th IEEE Vehicular Technology Conference (May 6-9, 1990) Orlando, FL, pp. 100-104.
BM	Stevens, Bruce W. "Asynchronous Bidirectional Network Interface Enabling Seamless Concurrent Processing in a Distributed Heterogeneous Multiprocessor System," Serial No. 783,661, Filing Date 28 October 1991, Office of the Chief of Naval Research.
BM	Hughes, Austin. <u>Electric Motors and Drives</u> (Newnes: Oxford, 1990), Table of Contents (pp. v-xiii), Chapter 9 "Synchronous, Switched Reluctance and Brushless D.C. Drives," (pp. 293-315).
Examiner BM	Date Considered: 2/17/05
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Form PTO-1449 (Rev. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE				ATTY. DOCKET NO: 0102320-00037		APPLICATION NO: 10/676,726							
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>						APPLICANT(S): Thornton et al.									
						FILING DATE: 10/1/2003		GROUP ART UNIT:							
U.S. PATENT DOCUMENTS															
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*		
<i>BM</i> ↓		3	7	8	6	4	1	1	1/15/74	Kurauchi et al.	340	23			
		3	8	4	5	7	2	0	11/5/74	Bohn et al.	104	148			
		3	8	5	8	5	2	1	1/7/75	Atherton	104	148			
		3	8	7	4	2	9	9	4/1/75	Silva et al.	104	130			
		3	9	0	6	4	3	6	9/16/75	Kurauchi et al.	340	23			
		3	9	2	7	7	3	5	12/23/75	Miericke et al.	104	148			
		3	9	7	9	0	9	1	9/7/76	Gagnon et al.	246	8			
		4	0	2	3	7	5	3	5/17/77	Dobler	246	5			
		4	0	6	1	0	8	9	12/6/77	Sawyer	104	23			
	4	0	6	5	7	0	6	12/27/77	Gosling et al.	318	254				
FOREIGN PATENT DOCUMENTS															
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION		
													YES	NO	
	<i>BM</i>	195 35 856 A1							3/20/97	DE					x
	<i>BM</i>	8-129336							5/21/96	JP					x
	<i>BM</i>	91-4927							3/29/91	KR					x
	<i>BM</i>	1140212 A							2/15/85	SU					x
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)															
	<i>BM</i>	Basak, Amitava. <u>Permanent-Magnet DC Linear Motors</u> (Clarendon Press: Oxford, 1996), Table of Contents (pp. ix-xi), Chapter 2 "Types of DC Linear Motor" (pp. 21-41) and Chapter 5 "Supports and Guidance" (pp. 90-104).													
	<i>BM</i>	Gieras, Jacek F. et al. <u>Linear Synchronous Motors: Transportation and Automation Systems</u> (CRC Press: New York, 2000), Table of Contents, Chapter 6 "High Speed Maglev Transport" (pp. 177-215).													
Examiner	<i>BM</i>	Date Considered: <i>9/12/05</i>													
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(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

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10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
Bm	4 1 2 3 1 7 5	1/2/79	Miller et al.	104	130	
	4 2 9 2 4 6 5	9/29/81	Wilson et al.	178	3	
	4 3 6 1 2 0 2	11/30/82	Minovitch	180	168	
	4 4 4 1 6 0 4	4/10/84	Schlig et al.	198	598	
	4 5 2 2 1 2 8	6/11/85	Anderson	104	130	
	4 6 6 5 8 2 9	5/19/87	Anderson	104	124	
	4 6 6 5 8 3 0	5/19/87	Anderson et al.	104	124	
	4 6 7 1 1 8 5	6/9/87	Anderson et al.	104	130	
	4 7 2 6 2 9 9	2/23/88	Anderson	104	88	
↓	4 7 7 6 4 6 4	10/11/88	Miller et al.	209	3.3	

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N
					YES NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*	
Bm		4	7	9	4	8	6	5	1/3/89	Lindberg	104	246	
Bm		4	8	0	0	3	2	8	1/24/89	Bolger et al.	320	2	
		4	8	2	6	3	4	4	6/6/89	Bolger	191	10	<i>WRONG P.N.</i>
Bm		4	9	1	4	5	3	9	4/3/90	Turner et al.	361	18	
		5	0	3	2	7	4	6	7/16/91	Ueda et al.	310	12	
		5	1	0	8	0	5	2	4/28/92	Malewicki et al.	246	5	
		5	1	2	6	6	0	6	6/30/92	Hofmann	310	49	
		5	2	1	4	3	2	3	5/25/93	Ueda et al.	310	12	
		5	2	1	4	9	8	1	6/1/93	Weinberger et al.	74	573	
	↓	5	2	4	2	1	3	6	9/7/93	Cribbens et al.	246	34	
FOREIGN PATENT DOCUMENTS													
		DOCUMENT NUMBER						DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N	
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Bm		5	2	5	1	5	6	3	10/12/93	Staehs et al.	104	168		
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		5	2	6	7	5	1	4	12/7/93	Staehs et al.	104	246		
		5	2	7	7	1	2	4	1/11/94	DiFonso et al.	104	130		
		5	2	7	7	1	2	5	1/11/94	DiFonso et al.	104	292		
		5	2	9	3	3	0	8	3/8/94	Boys et al.	363	37		
		5	3	2	5	9	7	4	7/5/94	Staehs	211	60.1		
		5	4	0	9	0	9	5	4/25/95	Hoshi et al.	198	372		
		5	4	3	5	4	2	9	7/25/95	Van Den Goor	189	890.1		
V		5	4	4	4	3	4	1	8/22/95	Kneifel, II et al.	318	432		
FOREIGN PATENT DOCUMENTS														
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BM		5	4	5	0	3	0	5	9/12/95	Boys et al.	363	24		
		5	4	5	2	6	6	3	9/26/95	Berdut	104	283		
		5	4	6	7	7	1	8	11/21/95	Shibata et al.	104	284		
		5	5	1	7	9	2	4	5/21/96	He et al.	104	286		
		5	5	1	9	2	6	6	5/21/96	Chitayat	310	12		
		5	5	2	1	4	5	1	5/28/96	Oudet et al.	310	266		
		5	5	2	3	6	3	7	6/4/96	Miller	310	156		
		5	5	2	8	1	1	3	6/18/96	Boys et al.	318	16		
		5	5	5	1	3	5	0	9/3/96	Yamada et al.	104	293		
↓		5	5	7	3	0	9	0	11/12/96	Ross	191	10		
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BMA		5	5	9	0	6	0	4	1/7/97	Lund	104	88.04	
		5	5	9	0	9	9	5	1/7/97	Berkers et al.	414	357	
		5	5	9	2	1	5	8	1/7/97	Riffaud	340	941	
		5	5	9	5	1	2	1	1/21/97	Elliott et al.	104	53	
		5	6	1	9	0	7	8	4/8/97	Boys et al.	307	85	
		5	7	0	9	2	9	1	1/20/98	Nishino et al.	191	10	
		5	7	2	0	4	5	4	2/24/98	Bachetti et al.	246	34	
		5	7	2	3	9	1	7	3/3/98	Chitayat	310	12	
		5	7	5	7	1	0	0	5/26/98	Burgbacher	310	186	
		5	8	2	1	6	3	8	10/13/98	Boys et al.	307	104	

FOREIGN PATENT DOCUMENTS

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													YES	NO

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<i>BSM</i> ↓		5	8	3	9	5	5	4	11/24/98	Clark	191	10		
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		5	9	5	2	7	4	3	9/14/99	Sidey	310	12		
		5	9	9	0	5	9	2	11/23/99	Miura et al.	310	156		
		6	0	0	5	5	1	1	12/21/99	Young et al.	342	70		
		6	0	0	8	5	5	2	12/28/99	Yagoto et al.	310	12		
		6	0	1	1	5	0	8	1/4/00	Perreault et al.	342	350		
		6	0	3	4	4	9	9	3/7/00	Tranovich	318	650		
	6	0	8	1	0	5	8	6/27/00	Suzuki et al.	310	156			
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE*														
<i>Bm</i> ↓ <i>Bm</i> <i>Bm</i> ↓ 		6	0	8	9	5	1	2	7/18/00	Ansorge et al.	246	194															
		6	1	0	1	9	5	2	8/15/00	Thornton et al.	104	282															
		6	2	2	5	9	1	9	5/1/01	Lumbis et al.	340	933															
		6	4	9	9	7	0	1	12/31/02	Thornton et al.	246	194															
		5	9	0	6	6	4	7	5/25/99	Zyburt et al	701	24															
		6	0	6	4	3	0	1	5/16/00	Takahashi et al.	340	435															
		6	1	0	0	8	2	1	8/8/00	Tanji et al.	340	988															
		6	1	3	7	4	2	4	10/24/00	Cohen et al.	340	933															
		4	8	3	6	3	4	4	6/6/89	Bolger																	
↓		4	0	3	2	1	7	5	1/2/79	Miller et al.																	
FOREIGN PATENT DOCUMENTS																											
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION														
													YES	NO													
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)																											
Examiner		Date Considered: <i>2/17/05</i>																									
		*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.																									
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Form PTO-1449
(Rev. 8-83)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:
0102320-00037APPLICATION NO:
10/676,726

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT(S):
Thornton et al.FILING DATE:
10/1/2003

GROUP ART UNIT:

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIAT E*
BMA	5 9 0 0 7 2 8	5/4/1999	Moser et al.	324	244	
	6 0 3 2 1 1 0	2/29/2000	Ishihara et al.	702	150	
	5 1 5 2 2 2 7	10/6/92	Kato	104	286	
	5 1 6 1 7 5 8	11/10/92	Shuto	246	419	
	5 1 7 8 0 3 7	1/12/93	Mihirogi	74	569	
	5 1 8 0 0 4 1	1/19/93	Shuto	191	53	
	5 1 9 3 7 6 7	3/16/93	Mihirogi	246	418	
	5 1 9 9 6 7 4	4/6/93	Mihirogi	246	434	
	5 2 4 7 8 9 0	9/28/93	Mihirogi	104	130	
✓	5 7 0 8 4 2 7	1/13/98	Bush	340	941	

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DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATIO N
					YES NO

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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Form PTO-1449 (Rev. 8-83)						U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO: 0102320-00037				APPLICATION NO: 10/676,726							
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)																	APPLICANT(S): Thornton et al.							
																	FILING DATE: 10/1/2003				GROUP ART UNIT:			
U.S. PATENT DOCUMENTS																								
EXAMINER INITIAL		DOCUMENT NUMBER							DATE		NAME			CLASS		SUBCLAS S		FILING DATE IF APPROPRIATE*						
BM		5	7	5	7	2	8	8	5/26/98	Dixon et al.			340	941										
FOREIGN PATENT DOCUMENTS																								
		DOCUMENT NUMBER							DATE		COUNTRY			CLASS		SUBCLASS		TRANSLATION						
																		YES	NO					
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